LG

CD-RW/DVD-ROM Drive

Owner's Manual

English

Deutsch

Français

Italiano

Español

To enjoy fully all the features and functions of your product, please read this owner's manual carefully and completely.

Questo manuale include il tagliando di garanzia. (pagina n. I-14)

BZ03

GCC-4120B

English

CAUTION : The laser used in the CD-RW/DVD-ROM drive can damage your eyes.
Do not attempt to open the cover.
To reduce the risk of electric shock, do not remove cover (or back).
No user-serviceable parts inside.
Refer servicing to qualified service personnel.

Use of controls or performance of procedures other than those specified here in may result in hazardous radiation exposure.

WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture

Industry Canada requirement

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

FCC COMPLIANCE STATEMENT

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an Authorized Service Center for help.

- FCC WARNING
  Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This CD-RW/DVD-ROM Drive is for use only with UL listed personal computers that have installation instructions detailing user installation of card cage accessories.

This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.

CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM.

VARNING-OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD STRÄLEN ÄR FARLIG.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

CLASS 1 LASER PRODUKT

VARNING-NÄR APPARATEN ÖPPNAS KAN MAN UTSÄTTAS FÖR BÅDE SYNLIG OCH OSYNLIG LASER STRÅLNING. UNDVIK ATT SE DIREKT MOT LASERSTRÅLEN OCH UNDVIK ATT BETRAKTA STRÅLEN MED OPTISKA INSTRUMENT.

Laser → sträldata
Väglängd → 780nm/650nm
Uteffekt → 4.3mW/5mW
Pulstle → Continuous

This unit uses CD-ROM discs with the following mark

When you use this unit as a CD player, use compact discs with the following mark

This unit uses CD-R discs with the following mark.

This unit uses CD-RW discs with the following mark.

This unit uses High Speed CD-RW discs with the following mark.

WARNING: Only drivers bearing the logo “Compact Disc ReWritable High Speed” can write or erase High Speed CD-RW media.

High Speed CD-RW Media may be recognized by the same “Compact Disc ReWritable High Speed” logo on the disc label or packaging material, or by the fact that it lists recording speeds of “4X to 10X, or “Up to 10X”

Attempted writes to High Speed CD-RW media using CD-RW drives NOT bearing the logo “Compact Disc ReWritable High Speed” may result in data loss.

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- Roxio and the Roxio logo are trademarks of the Roxio Corporation.
- MS-DOS, Windows, and Windows® 95 are trademarks registered in the United States and other countries by the Microsoft Corporation.
- The company names and product names written in this manual are trademarks or registered trademarks of the respective companies.

Thank you for purchasing this CD-RW/DVD-ROM Drive.

Features

- Enhanced-IDE (ATAPI) interface.
- Power tray loading and ejection of disc.(The disc can also be ejected manually.)
- Combination CD-R/RW and DVD-ROM Drive functions into one drive.
- Supports UDF for easy writing to CD-RW discs.
- Supports Region playback control Phase II.
- Supports Windows 95, 98, 2000, ME, & XP/NT4.0.
- Automatic buffer underrun error prevention technology-"ExacLink"
- 12X Writing (CD-R), 8X Writing (CD-RW), 8X Reading (DVD-ROM), and 32X max Reading (CD-R/RW, CD-ROM)*.

* Writing speed depends on capabilities of discs.
As a result, for high speed write/rewrite, you should use media labelled High Speed ReWritable discs

Package Items

Item	Quantity
- Internal CD-RW/DVD-ROM Drive	1
- CD Recording Software	1
- E-IDE (ATAPI) cable	1
- Audio Cable	1
- Mounting Screws	4
- Manual for CD-RW/DVD-ROM Drive	1
- Manual for CD Recording Software	1

Important Precautions

Follow these precautions when handling the drive or discs.

Precautions

- Please take notice that the manufacturer of this equipment does not offer any warranty against data loss due to inappropriate installation or handling, or direct or indirect damages.
- Please take notice that the manufacturer will bear no responsibility for direct or indirect damages caused by the use of this product or its malfunction.
- Please take notice that the manufacturer will bear no responsibility for damage to data caused by this product.
- Please backup (copy) all important data as protection against data loss.

Installation

- Avoid placing the drive in a location subject to:
  - high humidity
  - high temperature
  - excessive dust
  - mechanical vibration
  - direct sunlight

We recommend using the drive in a horizontal or vertical position. Do not use it in tilted position.

Operation

- Don't move the drive suddenly from a cold place to a warm one or raise the room temperature suddenly. Condensation may occur, causing abnormal operation.
- Make sure to remove the disc before moving the drive. The disc may be damaged, causing data loss.
- Be careful to prevent foreign objects, such as liquids or metal, from entering the drive. In case a foreign object enters the drive, please consult the dealer where the drive was purchased.
- Don't interrupt the electric power while the drive is operating.
- When connecting two IDE devices to the Primary or Secondary connectors, make sure that the two devices are not configured as both Master, or both Slave. If they are both set the same, Windows may fail to run or recognize the drives.
- The total length of the IDE cable should be no more than 18 inches (about 45 cm).

System Environment

Computer

This unit can be operated in the system environment explained here.

System requirements	CPU	233MHz (or faster) Pentium (for 12x speed, 350MHz or faster recommended)
	Memory	Windows 95/98 : 32MB or greater. Windows NT Workstation Ver. 4.0: 32MB or greater (64MB or over recommended) Windows 2000:64MB or greater(128MB or over recommended)
Hard disk		Hard disk with average access time of 19 msec or less, and data transfer speed of 1800KB/sec or greater. 75MB or more free space. (The free space needed for writing depends on the quantity of data.)
Interface		Enhanced-IDE interface (as Primary Slave, Secondary Master or Slave)
Drive bay		5.25-inch half-height bay required
Power		+5V/+12V power socket required
Software Required OS		Windows 95/98/2000, Windows NT Workstation Ver.4.0 or later*
CD-R, CD-RW discs		**CD-R** : LG, Ricoh, Mitsubishi Chemical, Verbatim, Taiyo Yuden, Mitsui Toatsu, TDK, Kodak, or SKC discs are recommended. **CD-RW** : Ricoh, Mitsubishi chemical, Verbatim, Imation, Sony discs are recommended.

- ❏ Occasionally the CD-R and CD-RW discs written by the CD-R/RW drive cannot be read by other CD drives*. These unreadable discs may need to be read using the CD-R/RW drive on which they were written.

* The disc written using the CD-R/RW drive might not be readable by CD-ROMs other than Multi-read compatible (UDF compatible) CD-ROMs.
Multiread compatible (UDF compatible) CD-ROMs are:
1. CD-ROMs that can read low reflectance.
2. CD-ROMs that support Packet Write.

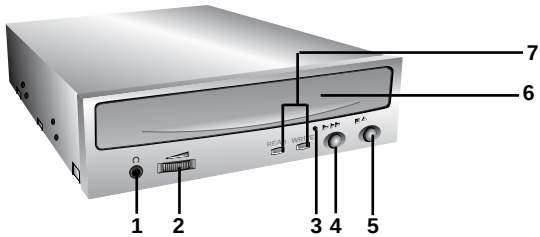
- ❏ **Please note:** Certain software (i.e. particularly those including Video playback) may require a considerably increased specification PC to give acceptable results. While this CD-RW/DVD-ROM drive can read DVD-video discs, decoding them to display on your pc's monitor requires separate MPEG decoding that is done by separate hardware (either a MPEG decoder card or MPEG decoding done by your video card), or separate software that you install to do MPEG decoding. This items are separate and are not included with this drive.

Software

Install the supplied CD Recording Software before using this unit.

Location and Function of Controls

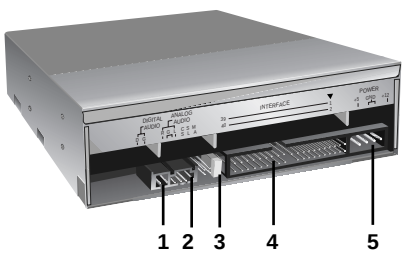
Front Panel



1. **Headphone jack**
2. **Volume control**
3. **Emergency Eject Hole**
4. **Play/Skip button**
5. **Stop/Eject button**
6. **Disc tray**

7. **Drive activity indicators**
   Two colored LEDs are used to indicate the operation of CD-RW/DVD-ROM Drive.
   (1) Read
   The orange color is displayed when the spindle motor begins the Spin up operation: accessing data, reading data, playing Audio, and up loading tray.
   (2) Write
   The green color is flashed during disc writing sessions.

Rear Panel



1. **Digital Audio Output Connector**
2. **Analog Audio Output Connector**
3. **Jumper Connector**
   This jumper determines whether the drive is configured as a master or slave. Changing the master-slave configuration takes effect after power-on reset.
4. **IDE Interface Connector**
   Connect to the IDE (Integrated Device Electronics) Interface using a 40-pin flat IDE cable.
   NOTE : Do not connect or disconnect the cable when the power is on, as this could cause a short circuit and damage the system. Always turn the power OFF when connecting or disconnecting the cable.
5. **Power Connector**

Installing the Drive

Before Installation

Before installing the drive, please note the following points.

- You will need the following:
  - A screw driver of a suitable size to fit the securing screws for the drive unit.
  - The manual for the computer, so you can find the mounting positions for the IDE controller cable.
- Turn off all peripheral appliances of the computer and the computer itself, and disconnect their power cords from the wall sockets.
- Discharge any static electricity on your person by touching the computer covers, etc.

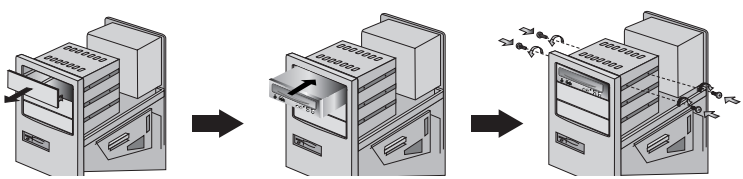
Removing the Computer Cover

Make sure all peripheral devices of the computer and the computer itself are turned off, and then remove the cover. Refer to the manual for the computer for details about removing the cover.

NOTE : There may be sharp edges inside the computer so take care to avoid injury.

Mounting the Drive

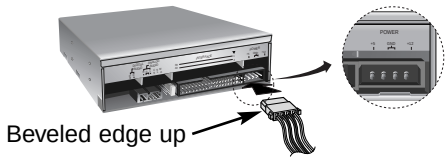
1. Remove the 5¼″ drive bay panel from the computer. Refer to the manual for the computer for details.
2. Insert the drive unit into the bay. Do not apply excessive pressure to the cables inside the computer.
3. Secure the drive with the screws provided. If there is not enough space behind the drive, connect the IDE and other cables before securing the drive.



NOTE : This is a general installation guide. If your PC hardware appears different, please consult your hardware manual for installing peripheral devices.

Connecting the Power Connector

Connect the power cable from the computer's power supply to the socket on the drive unit, fitting the connector firmly into the power in connector. If there is no spare power cable available in the computer, you will have to purchase a splitter cable of a suitable type.

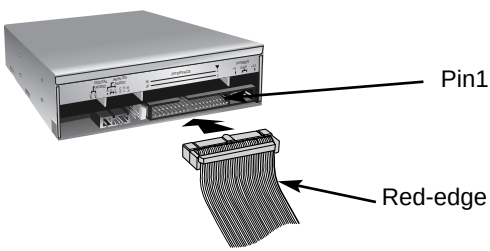


NOTE : Improper connection may damage the drive and void the warranty. Generally, the Power connector can only fit one way.

Connecting the Interface Connector

Connect the 40 pin IDE cable to the back of the CD-RW/DVD-ROM Drive, making sure the coloured (red) stripe on the IDE cable is connected to pin 1 on the CD-RW/DVD-ROM drive. Pin 1 is closest to the Power Connector.

NOTE : Generally, the IDE connector is keyed and will only fit one way.



Connecting the Sound Card

If the computer is using a sound card, the drive is connected to the sound card with an audio cable. The supplied analog audio cable fits most sound cards or one can be purchased at a local computer store.

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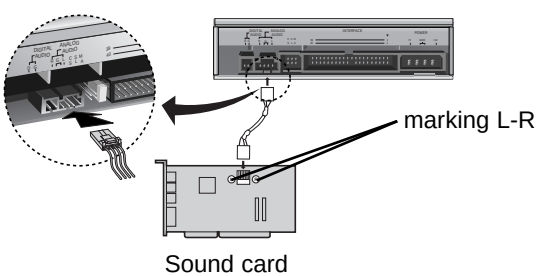
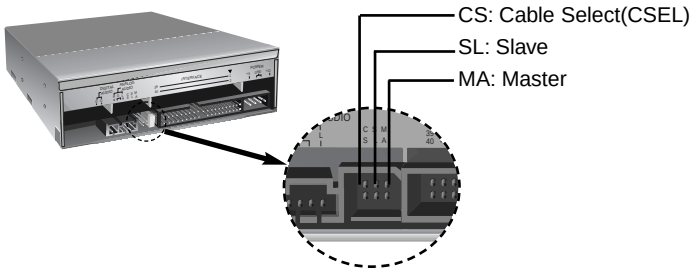


Jumper Setup

Before installation, set the jumper on the jumper connector on the rear panel.
The drive can be connected as the Master or Slave on an EIDE (ATAPI) interface. When several (up to four) EIDE devices are connected, each must be set in a unique way. Specific knowledge of hardware and software is necessary to install the drive.

NOTE : If two peripheral devices with the same settings are both connected to the Primary or to the Secondary EIDE bus, the host computer may fail to run or may malfunction. Careful attention is necessary.



NOTE : Only one jumper should be installed on the jumper connector. If more than one jumper is installed, the drive may malfunction or be damaged.

Master/Slave setting is determined by jumper installation on the Jumper Connector. The following table shows the possible jumper settings.

Name	Function	CS	SL	MA
MA (Master)	Drive set as Master	○ ○	○ ○	▮
SL (Slave)	Drive set as Slave	○ ○	▮	○ ○
CS (Cable Select)	Drive mode set by CSEL on the host IDE interface	▮	○ ○	○ ○

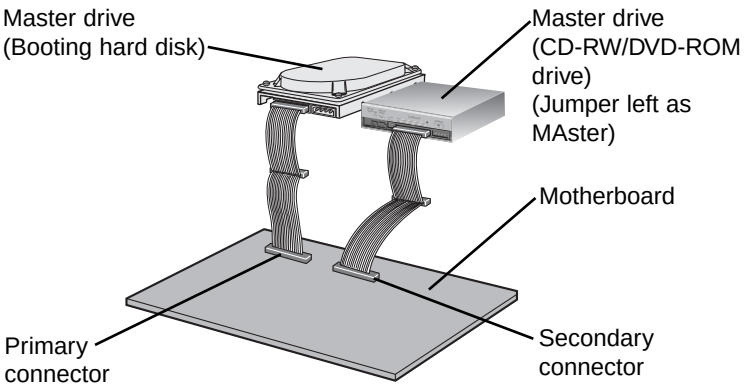
If you use CSEL setting, the MASTER/SLAVE setting will be made automatically, depending on the hardware configuration.
For details refer to the manual of your computer.

PC Connection

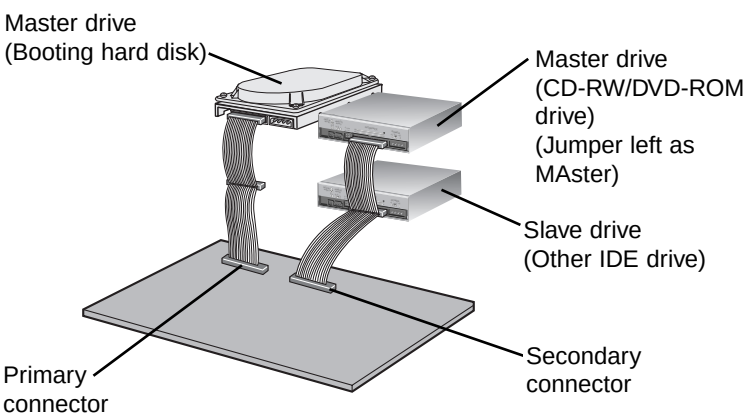
The CD-RW/DVD-ROM drive connects to the motherboard of the host computer using an IDE interface cable. You may connect the CD-RW /DVD-ROM Drive as a Slave or Master device, depending on your computer.

To Install as a Master Drive

To install the drive as a Master, the jumper can be left as supplied from the factory.



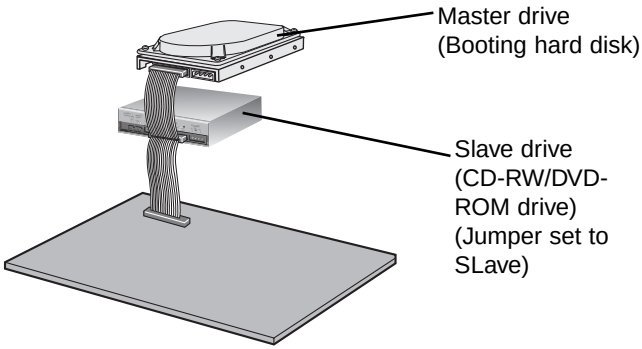
- OR -



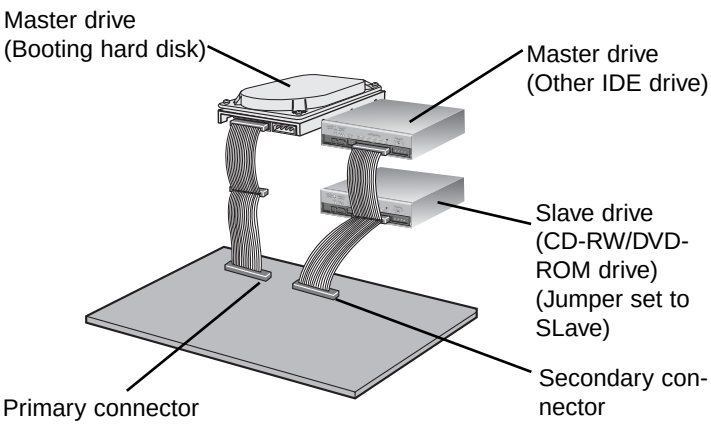
NOTE : A hard disk is normally installed as the Primary Master on the EIDE (ATAPI) interface. Other EIDE peripheral devices such as hard drives and CD-RW/DVD-ROMs are then set differently.

To Install as a Slave Drive

To install the drive as a Slave, change the jumper setting on the rear panel to SL.



- OR -



Replacing the Computer Cover

When the installation of the drive unit is complete, replace the computer cover.

Device Drivers

When using Windows 95/98/2000/ME/XP or Window NT Workstation Ver.4.0, no special device driver is required.
Your system, upon Power On and bootup after installing and connecting the new CD-RW/DVD-ROM drive, will recognize and load native software drivers automatically.

The DOS and Windows 3.1 users can download the DOS Device drivers anytime via internet.
For your information, please consult the following internet sites:
http://www.lge.com
http://www.lgeservice.com/drivers.html

For Windows 95/98/2000 Users

- In order to ensure normal drive operation, please check the following:
  - The drive is displayed in
    Windows 95/98 : [Control Panels]-[System]-[Device Manager]-[CD-ROM]
    Windows 2000 : [Control Panels]-[System]-[Hardware]-[Device Manager]-[DVD/CD-ROM-Drive]
  - 32-bit is displayed in
    [Control Panels]-[System]-[Performance]
- If the drive is not recognized by your computer, please check the following items.
  - If a ! indicator is displayed on the IDE controller in [Control Panels]-[System]-[Devices Manager]-[Hard Disk Controller], you will need to contact your PC's manufacturer or the motherboard's manufacturer and get the appropriate IDE controller driver.
- Run **Add New Hardware** in Control Panel to let PC search again for new device.

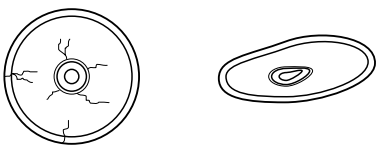
For Windows NT Workstation Ver.4.0 Users

- In order to ensure normal drive operation, please check to see if the drive is displayed on the IDE controller in [Control Panels]-[SCSI Adapter]-[Devices]
- If the drive is not recognized by your computer, a ! indicator is displayed on the IDE controller in [Control Panels]-[SCSI Adapter]-[Devices], you will need to contact your PC's manufacturer or the motherboard's manufacturer and get the appropriate IDE controller driver.

How to Use the Discs

When using CD-ROM discs, CD-R discs, DVD discs or CD-RW discs, don't attach any stickers or labels to the discs. Using discs with them attached not only causes read and write errors, but data on the disc may be lost due to damage to the disc itself.

The Discs in this unit operate at a very high speed!
DO NOT use damaged, cracked or warped discs. The drive's optical unit may be damaged if they break.



DO NOT use non-standard discs. NON-standard discs may not play or store data properly.

Emergency Eject

This drive has a feature that allows the CD to be ejected manually if this becomes necessary in an emergency, such as failure of the drive or a power outage.

NOTE: Don't use this feature except in an emergency.

1) Turn the power to OFF.
2) Poke a fine-tipped object (such as a straightened heavy duty paper clip) into the small hole above the eject button. The front door will pop open and the disk tray will come partway out.
3) Pull the front door to open it all the way, then grip the disc tray between thumb and forefinger and gently pull it straight out.

NOTE: This feature is a last measure to be used only in an emergency. Using it excessively will cause malfunction.

* If you cannot get a good grip on the disc tray with your fingers, use a steel binder clip or spring clamp to pull it out.

Troubleshooting

Before Requesting Service

Before calling for service, check this list.

- The drive doesn't have power.
  - Is the power supply cable from the host computer plugged in?
  - Is the Power Connector to the drive securely attached?

- The system doesn't start.
  - Are the Primary and Secondary connections and the Master and Slave settings correct?
  - Is the total length of the IDE cable 18 inches or less?
  - Is each connector completely attached? Movement of the PC may loosen connections.

- Cannot Read or Write Discs.
  - Is the condition of everything else in the system (CPU, hard disc, and others) as it should be? (See system environment page 4.)
  - Does the CD-R, DVD or CD-RW disc have dirt or scratches?
  - Did a screen saver or other application operate while writing to the disc?
  - Is there enough free space on the CD-R/RW disc?
  - Does writing fail even using the simulation test?
  - Is the disc loaded in the drive with the read/write surface facing the right direction? (label up)
  - Is the drive installed in the correct orientation?
  - Was the drive or disc moved from a low temperature environment to a high temperature environment? (There is a possibility of condensation on the lens in the drive or on the surface of the disc.)

When you call for service, be prepared to give as much information as possible of your system, environment, and the specific problem. (What happened? When? How long? What was going on? Were there any error messages displayed? etc.)

Please Note: Since this product supports Region Playback Control Phase II, a certain MPEG decoder card or Software without regional code setting may cause this drive not to read DVD-ROM discs.
This Drive enables you to change the regional code up to 5 times.

Specifications

Items		CD/DVD/CD-RW	
General	**Supported Disc**	DVD(Single/Dual), DVD-RW, DVD-R, CD-Digital Audio & CD-Extra, CD-Plus, CD-ROM, CD-ROM XA-Ready, CD-I FMV, CD-TEXT, CD-Bridge, CD-R, CD-RW, Photo-CD(Single & Multi-Session), Video CD	
	Disc Diameter	12cm/ 8cm, standard size CD's	
	Host Interface	E-IDE/ATAPI	
	Read/Write Speed	**Write (CD-R)** : 4X, 8X, 12X **Read (CD)** : max 32X	**Write (CD-RW)** : 2X, 4X, 8X **Read (DVD)** : max 8X
	Mounting direction	Horizontal/Vertical	
Performance	**Data transfer rate** ***Sustained**	CD: 1500 to 3600 Kbytes/s (10X - 24X CAV) 2100 to 4800 Kbytes/s (14X - 32X CAV) DVD: 3462 to 8310 Kbytes/s (2.5X - 6X CAV) 4570 to 11080 Kbytes/s (3.3X - 8X CAV)	
	***Burst(ATAPI)**	16.67 Mbytes/s (PIO Mode 4) 16.67 Mbytes/s (MULTI-DMA Mode 2)	
	Average Access Time (Random)	CD-RW/CD-ROM: 100ms(Typical) DVD(Single Layer) : 120ms(Typical)	
	Buffer capacity	2 Mbytes	
	MTBF	120000 Power On Hours (Duty Cycle 10%)	
Audio Output Level	**Line Output**	0.7 Vrms at 47 kohm	
	Headphone	0.6 Vrms at 32 kohm	
Environmental Conditions	**When operating**	**Temperature**: 5 °C to 45 °C	**Humidity**: 10% to 80% R.H.
	When not operating	**Temperature**: -20 °C to 60 °C	**Humidity**: 5% to 90% R.H.
Dimensions & Mass	**Dimensions (WxHxD)**	5.75"x7.27"x1.63" (146 x 184.7 x 41.3 mm)	
	Weight	Less than 2lbs.(0.90Kg)	
Electrical	**Power**	DC 5V, DC 12V	

The drive's appearance and specifications may change without prior notice.

CD-RW/DVD-ROM LIMITED WARRANTY

LG will repair or at its option replace*, without charge, your product which proves to be defective in material or workmanship under normal use, during the warranty period listed below from the date of original purchase.

WARRANTY PERIOD

MODEL #	Div.	Labor & Parts
GCC-4120B	Personal or Non-Income producing use:	1 Year
	Commercial or Income producing use:	90 days

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. WE SHALL NOT BE LIABLE FOR THE LOSS OF THE USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THIS PRODUCT OR FOR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY APPLICABLE TO THIS PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts; so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

THE ABOVE WARRANTY DOES NOT APPLY:

1. To damages or problems which result from delivery or improper installation.
2. To damages or problems which result from misuse, abuse, accident, alteration, or incorrect electrical current or voltage, maintaince conditions.
3. To service calls which do not involve defective workmanship or material and explaining the operation of the unit.
4. If the serial number of the drive is defaced or missing.

Therefore these costs are paid by the consumer.

CUSTOMER ASSISTANCE NUMBERS:

If you have questions about using this product, check your user's manual first. You will find answer to most of your questions there. If you need futher assistance, please contact us. We offer the following support and information services.

To Prove Warranty Coverage: → Retain your Sales Receipt to prove date of purchase.
→ Copy of your Sales Receipt must be submitted at the time warranty service is provided.

To Obtain Product, Customer, or Service Assistance: → Call 1-800-243-0000 24 hrs/7 days
Push appropriate menu code.
or http://www.LGEservice.com/techsup.html for support by E-mail.

For Exchange Service: → Call 1-800-243-0000 (Mon~Fri 8am~5pm CST)
Push appropriate menu code.

* Replacement is a factory-reconditioned unit. Free replacement applies only within the initial one-year period. Factory-reconditioned units are available at a low, fixed cost after the one-year warranty expires.

* Although the information (specifications, contacts, etc.) was correct at the time of printing, anything in this manual is subject to change without prior notice.

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Caution!

The disc rotates at high speed in the drive unit.
Use of worn, damaged or non-standard CD-ROM discs can only adversely affect the drive and cause the disc to shatter or "crush" while in use.
Disc crush can only occur when you use a damaged CD-ROM disc in the drive. It is an extremely rare occurrence, but there are steps which can be taken to prevent it.

Always check your discs before inserting them into the drive.

1. **Take care not to use worn, cracked, damaged, warped or poor quality CD-ROMs, as this may cause damage to your drive.**
2. **Check the clear plastic on the center of the disc, cracks here are the main cause of disc crush.**
3. **Do not play CD-ROMs which are a non-standard (I.e. non-circular)shape, such as heart shaped discs, or discs in the shape of a business card.**

How can you keep your discs from becoming damaged?

1. **When not in use, remove discs from the drive.**
2. **Keep discs in the packaging supplied with them and out of direct sunlight, away from heat sources.**

Excessive vibration, or a sudden jolt to the drive, during operation may cause a malfunction.
Avoid exposing the drive to sudden changes in temperature as it may cause condensation to collect inside the drive.

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P/NO. 3828HM1028A

Printed in Korea